CSC 174 Fall 2023
Assignment 3

I do NOT debug for students. Solving assignment problems independently is one assessment criteria of all assignments.

You should already receive your MySQL account through Canvas Message. This account connects to mySQL server named ecs-pd-proj-db.ecs.csus.edu. The instruction regarding how to use this account is on Canvas CSC 174-> Home ->MySQL instructions. Please read the instructions word by word before conclude that "the account doesn't work". If you have any questions, please talk with me during Zoom class time or offi

ce hours and share your screen. Email inquiry regarding the accounts will not be answered because I cannot know what's going on without seeing your screen.

You must test your account as soon as possible. Excuses, such as "I cannot log in, so I cannot finish it on time", will not be considered. You are given *more than enough* time for this assignment, just in case the database server has a short period of down time, although it is very unlikely to happen. Please don't wait until the last minute. Excuses such as "The server is down" will not be considered.

You can use the given account to do this assignment, which should be the easiest way. Alternatively, you can install MySQL with the workbench in your local machine to do the assignment *only if you know how to do so*.

Section 1

Using SQL, create tables according to the given schema in Figure 1. ***You must create your database using exactly the same names for tables and attributes***. The EER is shown in Figure 2.

Views related to the specialization are defined as follows. (please re-type the view definition instead of copy/paste since MS Word has specially formatted characters.)

```
CREATE VIEW TAView As
Select   S.SSN, S.StudentName, S.Address, S.Email, T.Salary
From    Student as S, TA as T
Where  S.SSN=T.SSN;

CREATE VIEW OnlineCourseView As
```

```
Select   C.CourseNo, C.CourseName, C.InstructorID, C.NoOfStudents, C.TASSN, W.URL
From    Course as C, OnlineCourse as W
Where   C.CourseNo = W.CourseNo;
```

```
CREATE VIEW InPersonCourseView As
Select   C.CourseNo, C.CourseName, C.InstructorID, C.NoOfStudents, C.TASSN,   T.ClassTime,
T.RoomNo, T.Building
From    Course as C, InPersonCourse as T
Where   C.CourseNo = T.CourseNo;
```

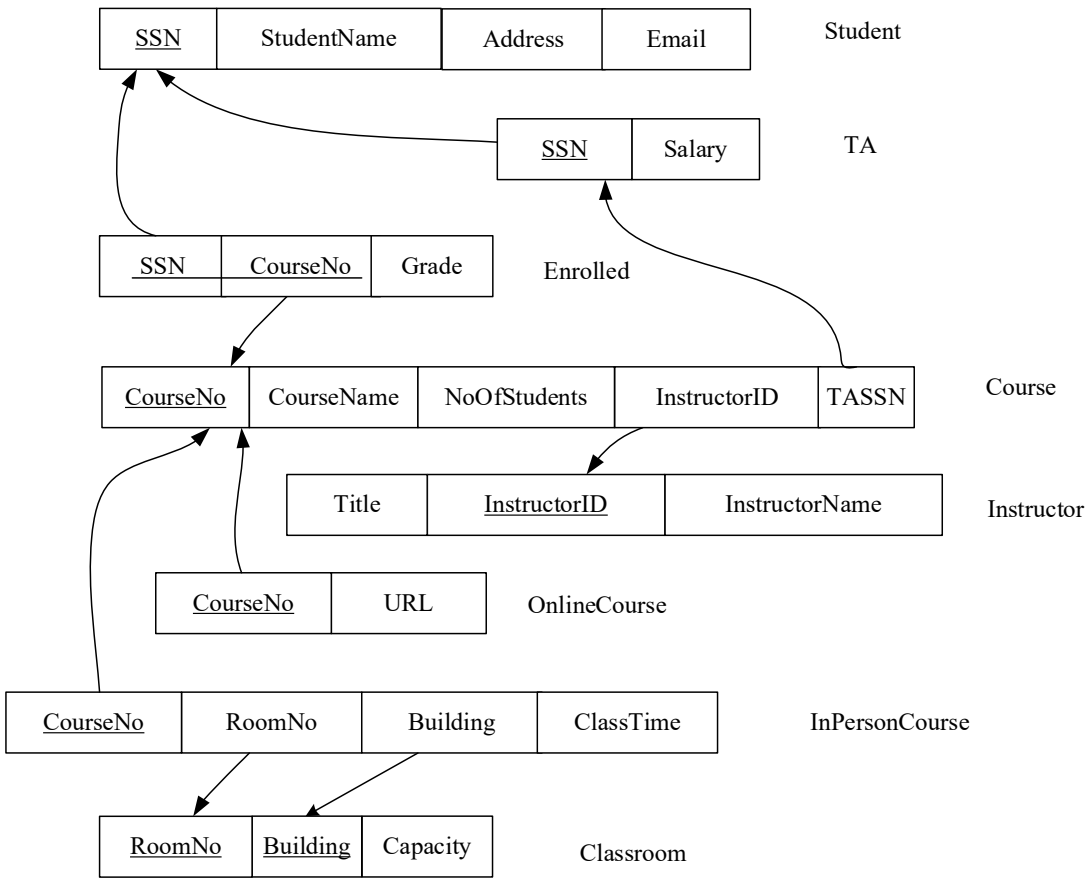

Figure 1. Relational Schema

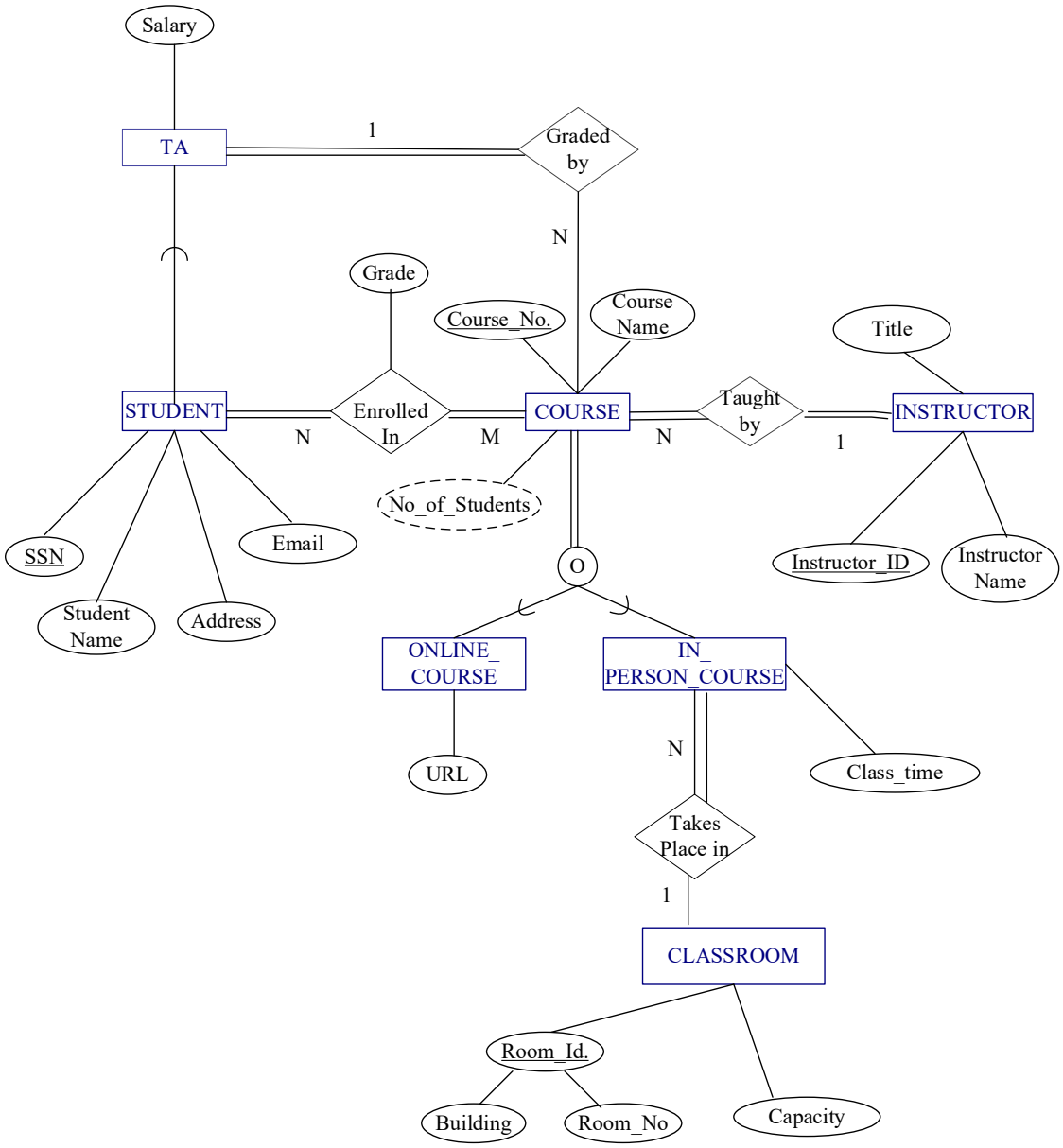

Figure 2. EER

Section 2

Populate the database.

Insert at least one tuple to each table. Also make sure there is at least one record show up when you query TAView, OnlineCourseView, InPersonCourseView.

Section 3

Specify the statements to drop all the tables and views. Pay attention to the order of the drop statements in order to drop everything successfully.

Submission

Submit the following files to Canvas. Do NOT zip your files. Zip your files will get a Zero. Please check the syllabus to see what you need to pay attention to when submitting an assignment.

You must execute each statement before submission. **0 point will be given to each non-executable.**

1. Create table statements (file name must be: 1_create_table.txt)
   I will copy everything from this file using ecs-pd-proj-db **grader account (not your account) to execute it. Make sure the tables are listed in the correct order such that I can execute it without any error. For any table that cannot be created, you will lose points, even if the error caused by the incorrect order of creating table.** Pay attention to the fact that table name and attribute names are case sensitive when using ecs-pd-proj-db server, but may not be case sensitive in your local machine.
2. Insert statements to populate database (file name must be : 2_populate_db.txt)
3. Create view statements (file name must be: 3_view.txt)
4. Drop tables statements (file name must be: 4_drop.txt)
5. Screen shots to prove that you ran your statements successfully (file name must be screenShots.pdf). Include screen shots to clearly show the statements you have executed, in the following order: create table statements, insert statements, create view statements, drop table statements. Please only include the screenshots of the final statements that show the correct results. In other words, please do not submit the screenshots of your debugging process. Example of screen shots are as follows. It shows a create table statement and the result of executing this create table statement.

```
mysql> create table test2
    -> (id int,
    -> name varchar(30),
    -> primary key (id))
    -> ;
Query OK, 0 rows affected (0.06 sec)
```

Tips:

1. Don’t use formatted text edit, such as Microsoft PowerPoint, to edit your SQL statements.
2. Pay attention to the sequence of creating table and dropping tables. They are not random order.
3. During the initial implementation and debugging phase, I suggest to work on tables one by one. That is, after you successfully create Table A, you can work on creating Table B, instead of creating all tables together.